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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/838,463	04/19/2001	Wadood Hamad	IP-6084	2092
23566	7590 04/11/2003			
OSTRAGER CHONG & FLAHERTY LLP 825 THIRD AVE 30TH FLOOR			EXAMINER	
			ALVO. MARC S	
NEW YORK	NEW YORK, NY 10022-7519			
			ART UNIT	PAPER NUMBER
			1731	10
			DATE MAILED: 04/11/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.	Applicant(s)			
Office Action Summary		09/838,463	HAMAD ET AL.			
	Office Action Summary	Examiner	Art Unit			
	71.	Steve Alvo	1731			
Period 1	The MAILING DATE of this communication app for Reply	pears on the cover sheet with the	correspondence address			
- Extracted - If the - If N - Fail - Any	HORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.13 or SIX (6) MONTHS from the mailing date of this communication. eperiod for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing the patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) d vill apply and will expire SIX (6) MONTHS fro	timely filed ays will be considered timely. m the mailing date of this communication			
1)🖂	Responsive to communication(s) filed on 22 C	October 2002 .				
2a)⊠	This cart to be seen	s action is non-final.				
3) 🗌 Disposit	Since this application is in condition for allowa closed in accordance with the practice under E ion of Claims	nce except for formal matters	prosecution as to the merits is 453 O.G. 213.			
4) 🖂	Claim(s) 10-24 is/are pending in the application	1.				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	Claim(s) is/are allowed.	Tom consideration.				
	Claim(s) <u>10-15 and 17-23</u> is/are rejected.					
	☑ Claim(s) <u>16 and 24</u> is/are objected to.					
	Claim(s) are subject to restriction and/or	election requirement				
Applicati	on Papers					
9)[] 7	The specification is objected to by the Examiner.					
10) 🔲 7	The drawing(s) filed on is/are: a)□ accepte	ed or b)☐ objected to by the Exa	miner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a)			
11)[] T	ne proposed drawing correction filed oni	s: a)□ approved b)□ disappro				
46\ 🗖 =	in approved, corrected drawings are required in reply	to this Office action.				
	he oath or declaration is objected to by the Exar	miner.				
	nder 35 U.S.C. §§ 119 and 120					
13) 🔲 /	Acknowledgment is made of a claim for foreign p	priority under 35 U.S.C. § 119(a)-(d) or (f).			
a)[]All b)□ Some * c)□ None of:		, v , v/,			
1	Certified copies of the priority documents h	nave been received.				
2	Certified copies of the priority documents h	nave been received in Application	on No.			
	Copies of the certified copies of the priority application from the International Bureate the attached detailed Office action for a list of	documents have been receive	d in this National Stage			
14) 🗌 Ac	knowledgment is made of a claim for domestic p	riority under 35 U.S.C. & 110/A	(to a provisional applications)			
a) (The translation of the foreign language provis knowledgment is made of a claim for domestic p	ional application has been				
)	2 2 2 3 120	witerOF (Z.),			
☐ Notice o	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) tion Disclosure Statement(s) (PTO-1449) Paper No(s)	4) Interview Summary (5) Notice of Informal Pa	PTO-413) Paper No(s) atent Application (PTO-152)			
Patent and Trade 0-326 (Rev. (emark Office 04-01) Office Action					

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The Final Rejection of March 17, 2003 is withdrawn. A copy of the first Office Action was mistakenly mailed as a Final. The following action is in response to October 22, 2002 and March 17, 2003 responses.

Claims 16 and 24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 10, 11, 13-15, 17, 19, 20 and 23 are rejected under 35 U.S.C. 103(a) as obvious over CHASE '403 in view of SETH et al (1975 article) or SETH et al (1993 article) or SETH.

CHASE '403 teaches using empirical methods and techniques of regression analyses to determine functional relationships between material properties and the strength of the paper for a grade of paper (column 14, lines 29-34). The fracture toughness is directly related to the paper strength, as it is a measure of the force needed to rupture the paper. SETH et al (1975 article) or SETH et al (1993 article) or SETH teaches that fractional toughness measurements can be used to determine the strength of paper. It would have been obvious to use the paper fracture toughness of SETH et al (1975 article) or SETH ET AL (1993 article) or SETH for the paper strength measurements of CHASE '403. It would have been obvious that the regression analyses to determine functional relationships between material properties of CHASE '403 could be related the fracture toughness of SETH et al (1975 article) or SETH ET AL (1993 article) or

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SETH as the fracture toughness is a measure of the paper strength. See Figure 1 of CHASE '403 for using caliper, basis weight, moisture (humidity), additives (column 9, line 35) and softwood ratio as the variables of CHASE '403. See CHASE '403 for monitoring the variables after a grade is identified and then providing output signals to control the strength or the fracture toughness of SETH et al (1975 article) or SETH ET AL (1993 article) or SETH.

Claims 12, 18 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over CHASE '403 in view of SETH et al (1975 article) or SETH ET AL (1993 article) or SETH as applied to claim 10 above, and further in view of HART.

HART teaches automatic control of a paper machine and teaches using many if the same measurements used by CHASE '403, e.g. basis weight, caliper, moisture, and additives (82), (83) and (84) including filler (alum). It would have been obvious to the routineer that alum (filler) could have been one of the additives measured by CHASE '403 in the manner taught by HART.

The argument that there is no motivation to combine the references is not convincing as CHASE '403, of SETH et al (1975 article), SETH ET AL (1993 article) and SETH are all concerned with determining the strength of paper. As set forth above, the fracture toughness is directly related to the paper strength, as it is a measure of the force needed to rupture the paper. SETH et al (1975 article) or SETH et al (1993 article) or SETH teaches that fractional toughness measurements can be used to determine the strength of paper. It would have been obvious to use the paper fracture toughness of SETH et al (1975 article) or SETH ET AL (1993 article) or SETH for the paper strength measurements of CHASE '403.

The argument that regression analysis of CHASE, drawn to Mullen burst strength, would not apply to fracture toughness is not convincing as one of ordinary skill in the control art

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would recognize that any conventional control technique could be used to control the processes of SETH et al (1975 article), SETH ET AL (1993 article) and SETH. Regression analysis is a well known control technique and it would be expected to provide control in other paper making processes than those of CHASE '403, e.g. it would have been prima facie obvious to use regression analysis on the fracture toughness control of SETH et al (1975 article), SETH ET AL (1993 article) and SETH.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

When filing an "Official" FAX in Group 1730, please indicate in the Header (upper right) "Official" for papers that are to be entered into the file. The "Official" FAX phone numbers for this TC 1700 are:

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Any inquiry concerning this communication or earlier communications from the **primary** examiner should be directed to Steve Alvo whose telephone number is (703) 308-2048. The Examiner can normally be reached on Monday - Friday from 6:00 AM - 2:30 PM (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Stanley Silverman, can be reached on 703-308-3837.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Group receptionist** whose telephone number is (703) 308-0661.

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MSA 4/10/03

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PRIMARY EXAMINER ART UNIT 1731